

ORGANIC NOMENCLATURE - ALKANES, ALKENES

Find the longest continuous chain of carbon atoms and use that alkane name.

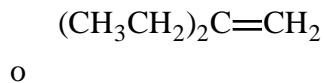
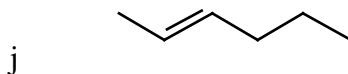
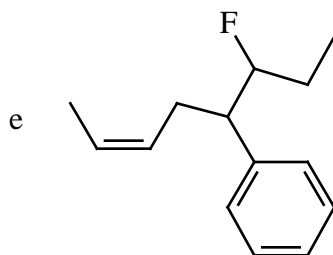
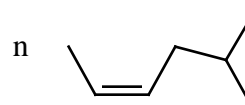
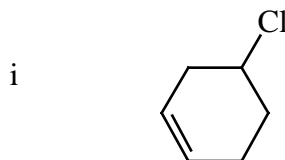
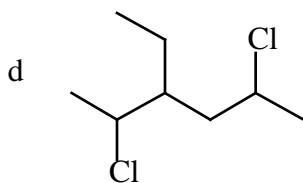
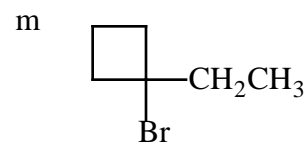
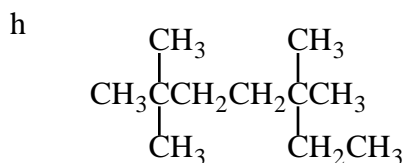
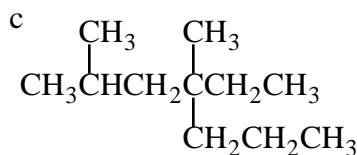
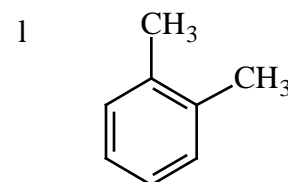
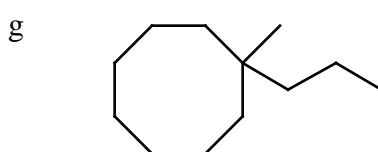
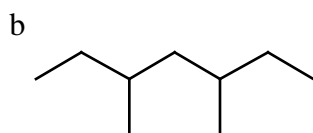
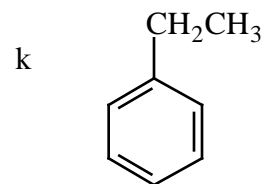
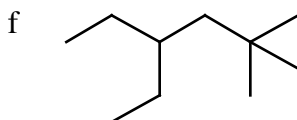
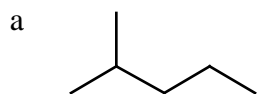
List the substituents attached to the longest chain in alphabetical order.

Use prefixes di, tri, tetra, penta, etc. when same substituent appears more than once.

Number the chain so that the lowest numbers possible are used.

If two numbering schemes are equivalent, number such that lowest number goes with first substituent alphabetically.

I. Name the following compounds.



II. Draw structures of the following compounds.

4-ethyl-2-methylhexane

3,3-dimethyl-1-pentene

3-phenylpropene

3-chloro-2,2-dimethyl-3-ethylpentane

3,7-dimethyl-1,*trans*-3,7-octatriene

1,1,2-trichlorobutane

1-bromo-3-(1-methylethyl)-5-phenylcyclohexane

cis-2-heptene

1-ethyl-2,5-dimethylbenzene